Application Questionnaire Form

HEYL PATTERSON
CPEG THERMAL PROCESSING

CALCINER QUESTIONNAIRE

COMPANY:	PHONE:
ADDRESS	CONTACT:

Material Specifications

Commercial Name Of Material to be Calcined
Name:

Chemical Formula
Name:

Bulk Density(s):
Wet: Lbs./Cu. Ft.: Dry: Lbs./Cu. Ft.:

Specific Heat

Specific Gravity

Weight of Water x 100 = %

Weight of Solids and Water Lbs./Cu. Ft.:

Particle Size:
Average:
Smallest :
Largest (Hygroscopic):

Material is: (Circle all that apply)
Sticky Abrasive Corrosive Plastic Brittle Dusty

Process Specifications

Capacity:
Lbs./Hr. Feed Rate: Lbs./Hr. Discharge Rate:

Utilization Time: Calciner will Operate:
Hrs. Per Day Days Per Week Weeks per Year

Moisture Content:
% Before Calcining % After Calcining

Wet Basis: (We have standardized on Wet Basis) ☐ yes ☐ No

Maximum Allowable Dry Material Temperature °F.

Maximum Temperature Wet Material will Stand in Hot Air or Furnace Gases
°F maximum.

Feed Uniformity
Uniform Quantity: ☐ yes ☐ No
Uniform Moisture: ☐ yes ☐ No
Uniform Temperature: ☐ yes ☐ No
Explain:

Provide Screen Analysis if Possible

MESH						
PASSING %						

Installation Requirements – Utility Preference

Source of Heat:
Steam PSI
Gas Fired BTU Per Cu. Ft. at Gauge Pressure PSI
Oil Fired BTU Per Gal. at Gauge Pressure PSI
Coal Fired BTU Per Lb. HHV BTU Per LB.
Waste Heat: °F
Waste Heat Composition:
Oil Grade:

Electricity:
110 Volt Phase Cycle ☐ AC ☐ DC
220 Volt Phase Cycle ☐ AC ☐ DC
440 Volt Phase Cycle ☐ AC ☐ DC

Other:
Compressed Air: PSI % Moisture Temp. °F
Water: GPM Temp. °F
Water: ☐ Fresh ☐ Salty ☐ Corrosive ☐ Muddy ☐ Other

Comments

Comments:

Phone (412) 788 – 9810 Fax (412) 788 – 9822

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CALCINER QUESTIONNAIRE (Continued)

CUSTOMER'S CALCINER EXPERIENCE

We have the following present or past experience with Calcining:	☐Concurrent	☐Counter Current	☐Never Calcined Before	
We have been using:	☐NA	☐Direct	☐Indirect	☐Other
The Calciner is to be made of:	☐Carbon Steel	☐Stainless Steel	☐other	
The Collector is to be made of	☐Carbon Steel	☐Stainless Steel	☐other	
Fan to be made of	☐Carbon Steel	☐Stainless Steel	☐other	
We have the following available area:	Ft. Wide	Ft. Length	Ft. Height	☐No limitations
Other Material Specifications:				
The material to be calcined can be handled in a screw conveyor?	☐True	☐False		
The calcining Operation is desired to be:	☐Manual	☐Automatic		
The Calciner shall be Mounted on:	☐ a One Piece Base	☐Concrete Piers	☐Other	
The style of drive is desired to be:	☐Gear and Pinion	☐Wrap-Around Chain and Sprocket		☐Other
The preferred auxiliary drive shall be:	☐Air Motor	☐Diesel Engine	☐Gasoline Engine	

Type of Purge Gas:		
Composition of Purge Gas:		
Quantity of Purge Gas:		
Inlet Purge Gas Temperature:		°F.
Outlet Purge Gas Temperature:		°F.
Type of Volatile Matter/Composition:		
Quantity of Volatile Matte:		
Are any Volatile Components Corrosive:		
Are Solids Corrosive :		
What reactions Occur During Processing:		
What Degree of Conversion Acceptable:		

EQUIPMENT TO BE SUPPLIED WITH CALCINER

Equipment	Specification Comments
Fans	
Air Heater	
Automatic Controls	
Dust Collector	
Ducts	
Feeder	
Conveying Equipment	
Furnace	
Motors - Power	
Motors - Controls	
Electronic Controls	

DELIVERY

Drawings Required:	
Quotation Date:	
Proposal Required:	
Equipment Delivery Date:	

INFORMATION SOURCE

Information Furnished By:	
Return To:	

Comments

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